

WHAT IS CLAIMED IS:

1. A metal unitary structural member, comprising:
- an elongated, axially extending central portion;
- a plurality of web portions extending radially from said central portion and extending in an axial direction along a length of said central portion; and
- a plurality of radially outer portions extending in said axial direction along a length of said central portion and between said web portions in cross-section, said plurality of outer portions defining a outer surface of the member.
2. The member of claim 1 wherein said plurality of outer portions are arched in cross-section.
3. The member of claim 1 wherein said plurality of web portions each include a plurality of perforations.
4. The member of claim 3 wherein said plurality of perforations are radially disposed between said central portion and said radially outer surface.

1 5. The member of claim 3 wherein said perforations are disposed within  
2 said plurality of web portions radially symmetrically about said central  
3 portion.

1 6. The member of claim 3 wherein said perforations are axially disposed  
2 within said plurality of web portions at axial intervals.

1 7. The member of claim 1 wherein said central portion is curvilinear.

1 8. The member of claim 1 wherein said plurality of web portions are  
2 curvilinear.

1 9. The member of claim 1 wherein said plurality of web portions varies in  
2 radial length at various axial positions along the member.

1 10. The member of claim 1 wherein said central portion and said plurality  
2 of web portions have a curvilinear radial trajectory.

1 11. The member of claim 1 wherein said central portion and said plurality  
2 of web portions have a linear radial trajectory.

1 12. The member of claim 1 further including a connecting structure on at  
2 least one axial end for connecting to another member.

1 13. The member of claim 12 wherein said connecting structure includes a  
2 connector that is self-registering.

1 14. A metal unitary structural member comprising:  
2 a plurality of perforated web portions extending radially from each  
3 other and extending with each other in an axial direction; and  
4 a plurality of outer portions extending in an axial direction with said  
5 web portions and extending between said web portions in cross-section,  
6 said plurality of outer portions defining a radially outer surface of the  
7 member.

1 15. The member of claim 14 wherein said plurality of outer portions are  
2 arched in cross-section.

1 16. The member of claim 14 wherein said perforations are axially disposed  
2 within said plurality of web portions at axial intervals.

1 17. The member of claim 14 wherein an axis of the member is curvilinear.

1 18. The member of claim 14 wherein said plurality of web portions varies in  
2 radial length at various axial positions along the member.

1 19. The member of claim 17 wherein said plurality of web portions have a  
2 curvilinear radial trajectory.

1 20. The member of claim 14 wherein said plurality of web portions have a  
2 linear radial trajectory.

1 21. A metal unitary structural member comprising:  
2 an elongated, axially extending central portion;  
3 a plurality of web portions extending radially from said central  
4 portion and extending in an axial direction along a length of said central  
5 portion; and  
6 an outer surface including a plurality of outer portions extending in  
7 an axial direction along a length of said central portion and between said  
8 web portions in cross-section, said plurality of outer portions being  
9 arched in cross-section.

1 22. The member of claim 21 wherein said plurality of web portions each  
2 include a plurality of perforations.

1 23. The member of claim 21 wherein said perforations are axially disposed  
2 within said plurality of web portions at axial intervals.

1 24. The member of claim 21 wherein said central portion is curvilinear.

1 25. The member of claim 21 wherein said plurality of web portions varies in  
2 radial length at axial positions along the member.

1 26. A metal unitary structural member comprising:  
2 an elongated, axially extending central portion;  
3 a plurality of perforated web portions extending radially from said  
4 central portion and extending in an axial direction along a length of said  
5 central portion; and

6 a plurality of outer portions extending in an axial direction along a  
7 length of said central portion and between said web portions in cross-  
8 section, said plurality of outer portions being arched in cross-section,  
9 said plurality of outer portions defining an outer surface of the member.

1 27. The member of claim 26 wherein said central portion is curvilinear.

1 28. The member of claim 26 wherein said plurality of web portions are  
2 curvilinear.

1 29. The member of claim 26 wherein said plurality of web portions varies in  
2 radial length at various axial positions along the member.

1 30. The member of claim 26 wherein said central portion and said plurality  
2 of web portions have a curvilinear axial trajectory.

1 31. The member of claim 26 wherein said central portion and said plurality  
2 of web portions have a linear axial trajectory.